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TO: GEORGE MONIKANG

FAX: 571-273-8300

FROM: GREGORY GULLIVER

TELEPHONE: 1-847-282-3551

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DOCKET NO.: HI09048USU (P03060US)

APPLICANT(S): Allan O. Devantier et al.

TITLE: SYSTEM FOR SELECTING CORRECTION FACTORS FOR
AN AUDIO SYSTEM

SERIAL NO.: 10/684,152

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EXAMINER: George C. Monikang

GROUP ART UNIT: 2614

CONFIRMATION NO.: 2307

Proposed claim amendments for discussion.

1. (Currently Amended) An audio system comprising at least one correction factor, the correction factor selected based on a method comprising:

generating acoustic signals from at least one loudspeaker placed at potential loudspeaker locations;

recording transfer functions for the generated acoustic signals at a plurality of listening positions;

determining a plurality of potential correction factors;

modifying the transfer functions that are not equalized based on the potential correction factors so that predicted transfer functions are generated for each of at least two of the plurality

of listening positions for each of the plurality of potential correction factors, the predicted transfer functions representing simulations for the potential correction factors;

accessing a criterion by which to statistically analyze the predicted transfer functions;

statistically analyzing using the criterion across at least one frequency of the predicted transfer functions for the at least two of the plurality of listening positions; and

selecting a correction factor to improve for the criterion at the at least two of the plurality of listening positions based on the statistical analysis.